



# ***STIC Search Report***

**EIC 2100**

**STIC Database Tracking Number: 105873**

**TO: Chongshan Chen**  
**Location: 4B25**  
**Art Unit : 2172**  
**Tuesday, October 14, 2003**

**Case Serial Number: 09/775715**

**From: Carol Wong**  
**Location: EIC 2100**  
**PK2-4B33**  
**Phone: 305-9729**

**carol.wong@uspto.gov**

## **Search Notes**

Dear Examiner Chen,

Attached are the search results (from commercial databases) for your case.

Color tags mark the patents/articles which appear to be most relevant to the case.

Please call if you have any questions or suggestions for additional terminology, or a different approach to searching the case.

Thanks,  
Carol



# STIC EIC 2100 105873 Search Request Form

Today's Date:

10/14/03

What date would you like to use to limit the search?

Priority Date: 2/1/01

Other:

Name Chongshan Chen

AU 2172 Examiner # 79547

Room # 4B25 Phone 305-8319

Serial # 09/775,715

Format for Search Results (Circle One):

PAPER

DISK

EMAIL

Where have you searched so far?

USP

DWPI

EPO

JPO

ACM

IBM TDB

IEEE

INSPEC

SPI

Other

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>. *Abstract*

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

A system for user behavior based ranking of a document, comprising:  
means for determining a feature vector associated with a document, the feature vector comprising weights for certain terms that appear in the document; and  
means for modifying the feature vector for the document based on a sample of user actions captured during a search session so that the document is more highly ranked in response to the user actions.

STIC Searcher Carol Wong

Phone 305-9128

Date picked up 10-14-03

Date Completed 10-14-03



File 9:Business & Industry(R) Jul/1994-2003/Oct 13  
 (c) 2003 Resp. DB Svcs.  
 File 16:Gale Group PROMT(R) 1990-2003/Oct 13  
 (c) 2003 The Gale Group  
 File 47:Gale Group Magazine DB(TM) 1959-2003/Oct 10  
 (c) 2003 The Gale group  
 File 148:Gale Group Trade & Industry DB 1976-2003/Oct 13  
 (c)2003 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
 (c) 1999 The Gale Group  
 File 275:Gale Group Computer DB(TM) 1983-2003/Oct 13  
 (c) 2003 The Gale Group  
 File 621:Gale Group New Prod.Annou.(R) 1985-2003/Oct 13  
 (c) 2003 The Gale Group  
 File 636:Gale Group Newsletter DB(TM) 1987-2003/Oct 13  
 (c) 2003 The Gale Group  
 ? ds

Set	Items	Description
S1	6609696	RANK??? ? OR WEIGH??? ? OR RATE OR RATES OR RATING? OR RATED OR SCORE OR SCORES OR SCORED OR SCORING? OR VALUATION?
S2	70393	PRIORITIS? OR PRIORITIZ?
S3	546438	SORT OR SORTS OR SORTED OR SORTING?
S4	900255	S1:S2(2N) (HIGH??? ? OR ELEVAT? OR INCREAS?)
S5	41020	S1:S3(3N) (DOCUMENT? ? OR RECORD? ?)
S6	194729	S1:S3(3N) (PUBLICATION? ? OR FILE OR FILES OR FOLDER? ? OR - REPORT? ? OR MESSAGE OR MESSAGES)
S7	3150	S1:S3(3N)OBJECT? ?
S8	4537133	BEHAVIOR? ? OR BEHAVIOUR? ? OR ACTION? ? OR REACTION? OR REACTING? OR ACT OR ACTS OR ACTED OR REACT? ? OR REACTED OR REACTING
S9	8994835	VIEW OR VIEWS OR VIEWED OR VIEWING OR CLICK??? ? OR LOOK?? ? OR SEEN OR DISPLAY? OR SELECT OR SELECTS OR SELECTED OR SELECTION? OR SELECTING
S10	1696611	CHOSE? ? OR CHOOS??? ?
S11	980920	S8:S10(3N) (USER? ? OR SEARCHER? OR CLIENT? ? OR SUBSCRIBER? OR REQUEST?R? ? OR CONSUMER? OR CUSTOMER? OR PATRON? ? OR INDIVIDUAL? ? OR PERSON? ? OR PARTICIPANT? OR MEMBER? ?)
S12	165987	S1:S3(3N) (TERM OR TERMS OR WORD OR WORDS OR TERMINOLOG? OR PHRASE OR PHRASES OR TEXT? ? OR LEXEME? ? OR MORPHEME? ?)
S13	1559	S11(25N)S5:S7
S14	67	S13(S)S4
S15	33	S13(S)S12
S16	3	S13(S) (VECTOR? OR MATRICE? OR MATRIX?)
S17	103	S14:S16
S18	25	S17/2002:2003
S19	78	S17 NOT S18
S20	50	RD (unique items)

? t20/3,k/1,19

20/3,K/1 (Item 1 from file: 9)  
 DIALOG(R)File 9:Business & Industry(R)  
 (c) 2003 Resp. DB Svcs. All rts. reserv.

2920541 Supplier Number: 02920541 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Don't reinvent the wheel**  
**(Net Perceptions is introducing Knowledge Management 2.0, which aims to get rid of redundant management practices)**  
 KMWorld, v 9, n 7, p 1+  
 September 2000  
 DOCUMENT TYPE: Journal ISSN: 1060-894X (United States)

LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 700

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...one to five. The software can also infer value from a behavioral aspect. If a **person** is searching and **clicks** through on a document for a certain reason, maybe the author, the date, abstract, it gets a score. If she saves it, the **document** gets a **higher score**. If she accesses it repeatedly, it gets **rated** even **higher**. Additionally, documents can be presented back to the user. The software asks for feedback and...

20/3,K/19 (Item 5 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2003 The Gale group. All rts. reserv.

04081662 SUPPLIER NUMBER: 15450369 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**TARGET & FREESTYLE: DIALOG and Mead join the relevance ranks. (online searching systems; DIALOG Information Services Inc., Mead Data Central Inc.) (Software Review) (Evaluation)**  
Tenopir, Carol; Cahn, Pamela  
Online, v18, n3, p31(12)  
May, 1994  
DOCUMENT TYPE: Evaluation ISSN: 0146-5422 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 5703 LINE COUNT: 00453

... weight. Unequal document lengths are taken into account as well as are proximity of search words.

The resulting **document ranking** is used as the basis for order of display. Unlike Boolean's reverse chronological **display** or a **user**-specified sorting order such as alphabetically by author, relevance **ranking** displays first **documents** that are most likely to answer the user's query. This is good output for...

? t20/3,k/20,24,28,32

20/3,K/20 (Item 6 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2003 The Gale group. All rts. reserv.

03985111 SUPPLIER NUMBER: 14669412 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Evaluating commercial text search-and-retrieval packages.**  
Glassco, Richard A.  
Information Technology and Libraries, v12, n4, p413(9)  
Dec, 1993  
ISSN: 0730-9295 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 4382 LINE COUNT: 00354

... search criteria. Text systems usually perform the search by comparing search terms with an index **file** containing a **sorted** list of **words** found in the document database. The first of documents returned to the user is generally called a hit list. Third, the **user selects** documents from the hit list and browses them, reading and perhaps printing selected portions of...schemes by which the machine can assign relevance scores to documents. These schemes include using **term weights**, giving greater **weight** to more recent documents, giving greater weight to documents containing the Highest number of hits, giving greater weight to documents containing the most different search **terms**, giving greater

**weight** to documents with the highest search-term density (number of search-term hits divided by...giving greater weight to documents with search terms occurring most closely together, and giving greater **weight** to those search **terms** that occur least frequently in the inverted index (these terms are assumed to have the best ability to discriminate between relevant and irrelevant **documents** ).

Once a relevance **score** has been computed for each matching **document** , the system **sorts** the **document** titles before **displaying** them to the **user** . The user niay specify a relevance threshold, above which all documents are retrieved and displayed...

20/3,K/24 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

14128870 SUPPLIER NUMBER: 80850040 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Web search--your way: improving web searching with user preferences.**  
Glover, Eric J.; Lawrence, Steve; Gordon, Michael D.; Birmingham, William P.; Giles, C. Lee  
Communications of the ACM, 44, 12, 97(6)  
Dec, 2001  
ISSN: 0001-0782 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 3749 LINE COUNT: 00337

... dynamic display applet dynamically reorders results as they are retrieved and analyzed, always displaying the **highest ranked documents** among those retrieved so far. The dynamic **display** applet allows **users** to examine the results that have been processed at any point during a search, while...

20/3,K/28 (Item 5 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

09718889 SUPPLIER NUMBER: 19679200 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**AltaVista: Beyond Advanced Searching. (online searching)**  
Information Advisor, v9, n7, p1(7)  
July, 1997  
ISSN: 1050-1576 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 5605 LINE COUNT: 00428

... weight to documents that contain that phrase (but still find documents that contain the individual **words** , too).

Greenlar: **Weight** depends on the search the end-user is looking for. We make no assumptions about the minds or wants of our end- **users** . We **look** at the whole **document** . To optimize our **ranking** on one example or type of search would weaken the power of other searches for...

20/3,K/32 (Item 9 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

06509252 SUPPLIER NUMBER: 14364395 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Check out the new RANK command on DIALOG. (DIALOG Information Services new online command function)**  
Quint, Barbara  
Searcher, v1, n2, p36(3)

June, 1993

ISSN: 1070-4795

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 2055

LINE COUNT: 00152

... way, the new DIALOG RANK has nothing to do with the old--and loved--VU/ **TEXT RANK** Method A. The VU/ **TEXT** command could **RANK** and re-sort results from a set by occurrences of words in fields. At present...

...day," says Hudnut. The new Sort OCC (Sort Occurrence) command on STN International will let **searchers sort and display records** from the highest to the lowest number of occurrences of search terms in the **records** retrieved.

Judgment

The **RANK** command is very powerful and very promising, but searchers should be cautious in using the...

...OneSearch or even in a single file that stretches across the decades with unreconciled thesaurus **terminology**.

Using **RANK** for statistical analysis could prove very tricky, especially if the searcher does not know the...

? t20/3,k/42,44-45,49

20/3,K/42 (Item 3 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

(c) 2003 The Gale Group. All rts. reserv.

01708975 SUPPLIER NUMBER: 16178923 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Wide area information servers. (includes related articles on WAIS searches and on the use of a public WAIS) (Technical)

Buhle, E. Loren, Jr.

Digital Systems Journal, v16, n5, p13(4)

Sept-Oct, 1994

DOCUMENT TYPE: Technical

ISSN: 1067-7224

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2631 LINE COUNT: 00233

... of documents satisfying the query are displayed. The selected documents contain the requested words and **phrases**. Selected **documents** are **ranked** according to the number of matches.

5. To retrieve a document, the **user** simply **selects** it from the resulting list.

6. If the response is incomplete, the user can state...

20/3,K/44 (Item 5 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

(c) 2003 The Gale Group. All rts. reserv.

01644000 SUPPLIER NUMBER: 16201478

Caere delivers intelligent document management: from OCR to a desktop solution. (PageKeeper) (text processing software) (Software Review) (Evaluation)

Berry, M.

Workgroup Computing Report, v17, n7, p24(3)

July, 1994

DOCUMENT TYPE: Evaluation

ISSN: 1068-9699

LANGUAGE: ENGLISH

RECORD TYPE: ABSTRACT

...ABSTRACT: and creates a database based on the information. Information can be accessed either by using **weighted word** or document agent searches. The **weighted word** search lets users input natural language

queries to start their searches, while the document agent search requires **users** to **select** a document as a model and searches for similar documents. When the software finds matching...

20/3,K/45 (Item 6 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01584388 SUPPLIER NUMBER: 13440954 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Creating a CD-ROM: overview of the product field. (CD-ROM authoring and data retrieval software packages; includes company directory and related article on resources for doing research) (Buyers Guide)**

Banet, Bernard

Seybold Report on Desktop Publishing, v7, n6, p3(29)

Feb 1, 1993

DOCUMENT TYPE: Buyers Guide ISSN: 0889-9762 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 17829 LINE COUNT: 01443

... a probable order of relevance. To initiate this process, the user manually assigns a numerical **weight** to each search **term** in a list. The software finds all documents containing any of the **terms** and **ranks** them by first multiplying the **word weight** assigned to each **word** by the number of occurrences of that search term in a document. Then these products are summed to generate a **document weight**, which can then be **ranked** against other documents.

When the **ranking** is complete, the **user** is invited to **select** a likely **document** header from the **ranked** list and zoom down into the document, then the paragraph and then the sentence that...

20/3,K/49 (Item 3 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

03108818 Supplier Number: 46355315 (USE FORMAT 7 FOR FULLTEXT)

**WORLD WIDE WEB SEARCH ENGINES: ALTAVISTA & YAHOO**

Online Libraries & Microcomputers, v14, n5, pN/A

May 1, 1996

Language: English Record Type: Fulltext

Document Type: Newsletter; Professional Trade

Word Count: 2263

... With such a large volume of information, a relevance ranked search engine was designed which **scores** each **document** that was retrieved. Those documents which have a **higher score** are **displayed** to the **user** first.

Hardware Used with AltaVista

The entire AltaVista search service is built around Digital's...

?

File 696:DIALOG Telecom. Newsletters 1995-2003/Oct 13  
(c) 2003 The Dialog Corp.  
File 15:ABI/Inform(R) 1971-2003/Oct 13  
(c) 2003 ProQuest Info&Learning  
File 484:Periodical Abs Plustext 1986-2003/Oct W1  
(c) 2003 ProQuest  
File 553:Wilson Bus. Abs. FullText 1982-2003/Sep  
(c) 2003 The HW Wilson Co  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
File 613:PR Newswire 1999-2003/Oct 14  
(c) 2003 PR Newswire Association Inc  
File 635:Business Dateline(R) 1985-2003/Oct 13  
(c) 2003 ProQuest Info&Learning  
File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 610:Business Wire 1999-2003/Oct 14  
(c) 2003 Business Wire.  
File 369:New Scientist 1994-2003/Oct W1  
(c) 2003 Reed Business Information Ltd.  
File 370:Science 1996-1999/Jul W3  
(c) 1999 AAAS  
File 20:Dialog Global Reporter 1997-2003/Oct 14  
(c) 2003 The Dialog Corp.  
File 624:McGraw-Hill Publications 1985-2003/Oct 14  
(c) 2003 McGraw-Hill Co. Inc  
File 634:San Jose Mercury Jun 1985-2003/Oct 13  
(c) 2003 San Jose Mercury News  
File 647:CMP Computer Fulltext 1988-2003/Sep W3  
(c) 2003 CMP Media, LLC  
File 674:Computer News Fulltext 1989-2003/Oct W1  
(c) 2003 IDG Communications  
? ds

Set	Items	Description
S1	7759995	RANK??? ? OR WEIGH??? ? OR RATE OR RATES OR RATING? OR RATED OR SCORE OR SCORES OR SCORED OR SCORING? OR VALUATION?
S2	80429	PRIORITIS? OR PRIORITIZ?
S3	986942	SORT OR SORTS OR SORTED OR SORTING?
S4	1114043	S1:S2(2N) (HIGH??? ? OR ELEVAT? OR INCREAS?)
S5	56151	S1:S3(3N) (DOCUMENT? ? OR RECORD? ?)
S6	128779	S1:S3(3N) (PUBLICATION? ? OR FILE OR FILES OR FOLDER? ? OR - REPORT? ? OR MESSAGE OR MESSAGES)
S7	3197	S1:S3(3N)OBJECT? ?
S8	6670707	BEHAVIOR? ? OR BEHAVIOUR? ? OR ACTION? ? OR REACTION? OR REACTING? OR ACT OR ACTS OR ACTED OR REACT? ? OR REACTED OR REACTING
S9	10949834	VIEW OR VIEWS OR VIEWED OR VIEWING OR CLICK??? ? OR LOOK?? ? OR SEEN OR DISPLAY? OR SELECT OR SELECTS OR SELECTED OR SELECTION? OR SELECTING
S10	2024067	CHOSE? ? OR CHOOS??? ?
S11	896143	S8:S10(3N) (USER? ? OR SEARCHER? OR CLIENT? ? OR SUBSCRIBER? OR REQUEST?R? ? OR CONSUMER? OR CUSTOMER? OR PATRON? ? OR INDIVIDUAL? ? OR PERSON? ? OR PARTICIPANT? OR MEMBER? ?)
S12	228156	S1:S3(3N) (TERM OR TERMS OR WORD OR WORDS OR TERMINOLOG? OR PHRASE OR PHRASES OR TEXT? ? OR LEXEME? ? OR MORPHEME? ?)
S13	1093	S11(25N)S5:S7
S14	84	S13(S)S4
S15	27	S13(S)S12
S16	2	S13(S) (VECTOR? OR MATRICE? OR MATRIX?)



S17 111 S14:S16  
S18 18 S17/2002:2003  
S19 93 S17 NOT S18  
S20 75 RD (unique items)  
S21 72 S20 NOT CONSUMER()REPORT? ?  
S22 64 S21 NOT (RATE? ?(1W)RETURN? OR TAX OR TAXES OR LOAN? ?)  
? t22/3,k/11

22/3,K/11 (Item 10 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01049531 96-98924

**Beyond Boole: The next logical step**

Davis, Charles H  
American Society for Information Science. Bulletin v21n5 PP: 17-20  
Jun/Jul 1995  
ISSN: 0095-4403 JRNL CODE: BAS  
WORD COUNT: 2750

...TEXT: of skill and is meant for intermediaries or sophisticated end users.

In its simplest form, **weighted - term** logic allows the searcher to assign a threshold value that remains constant for each search. This threshold is an integer to which other **terms ' weights** are compared. The searcher then assigns every search term (a character string comprising a subject...

... record, it adds the corresponding weight to a cumulative total that eventually becomes the total **weight** for that **document**. The total **weight** is then compared with the threshold value previously **chosen** by the **searcher**. If the **document weight** is equal to or greater than the threshold, then the document or its surrogate is...  
? t22/3,k/33,38

22/3,K/33 (Item 1 from file: 553)  
DIALOG(R)File 553:Wilson Bus. Abs. FullText  
(c) 2003 The HW Wilson Co. All rts. reserv.

03293149 H.W. WILSON RECORD NUMBER: BWBA96043149  
**Copland's new abilities.**  
Gruman, Galen  
Macworld (Macworld) v. 13 (Apr. '96) p. 40-1  
LANGUAGE: English

...ABSTRACT: they want found, and Copland then creates a window that displays all documents containing those **words** and **rates** how closely the **document** fits the search request. Apple will apply this pattern-matching technology to more than document-content searches; the technology will also allow **users** to **view** all applications installed on a system or all files created by a particular user or...

22/3,K/38 (Item 2 from file: 613)  
DIALOG(R)File 613:PR Newswire  
(c) 2003 PR Newswire Association Inc. All rts. reserv.

00543864 20010402NEM008 (USE FORMAT 7 FOR FULLTEXT)  
**Webmap Introduces Zooming Technology Platform As the Driving Force Behind Product Line**

PR Newswire  
Monday, April 2, 2001 09:01 EDT  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 630

...link to a single  
document. Categories with visual borders are then imposed. The software  
then  
rates documents - based on parameters chosen by WebMap's customers  
- using a  
graphical rendering algorithm that layers this data on to the WebMap as a  
topographic feature. "Higher" regions indicate documents with higher  
ratings ,  
while "lower" regions depict documents with lower ratings.

Because WebMap's customers can decide the...